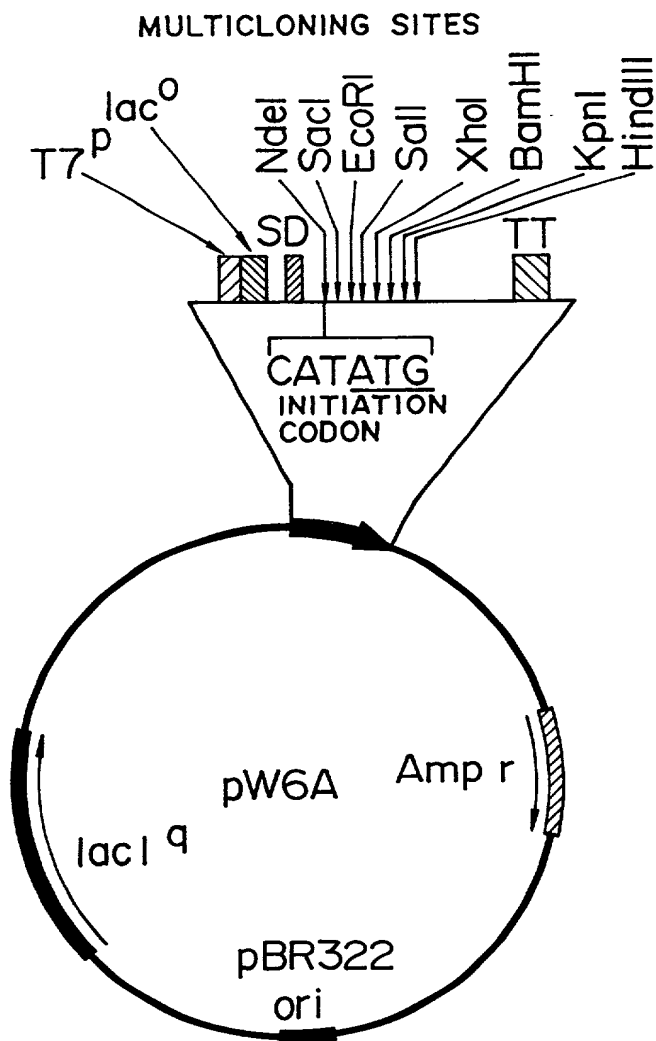


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FIG. 1

DETAILED DIAGRAM OF EXPRESSION VECTOR pW6A



T7^p : T7 PROMOTER
 lac^o : lac OPERATER
 SD : SHINE-DALGARNO SEQUENCE
 TT : T7 TRANSCRIPTIONAL TERMINATOR

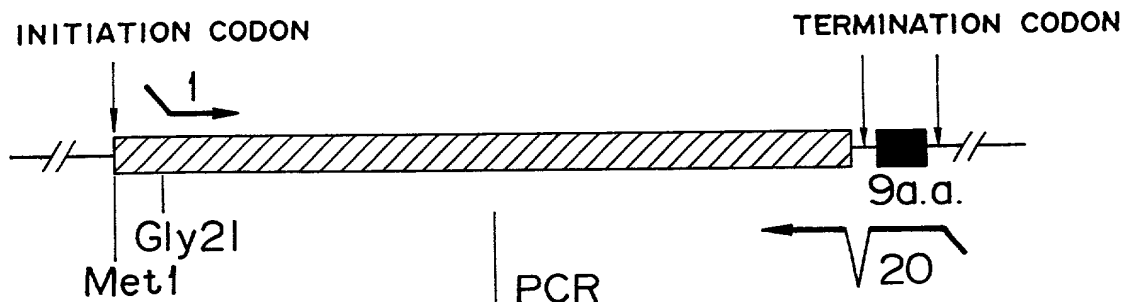
Amp^r : β LACTAMASE
 lacI^q : lac REPRESSOR
 pBR322 ori : REPLICATION ORIGIN

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FIG. 2

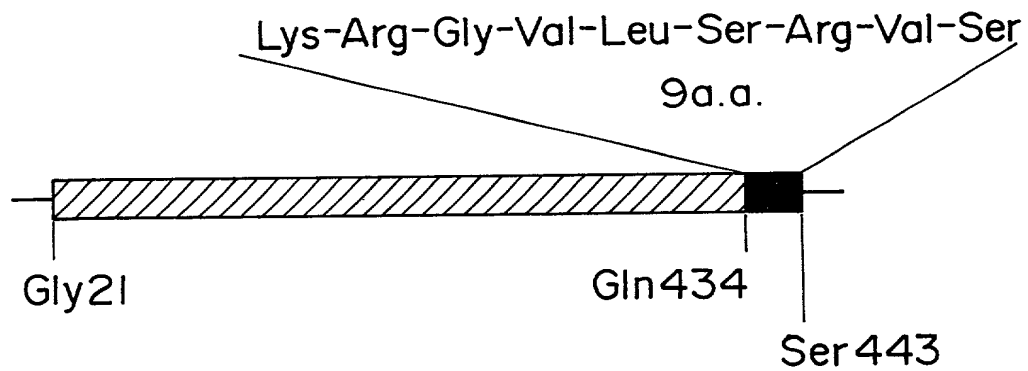
PREPARATION OF GENE ENCODING 47K ANTIGEN

GENE ENCODING 47K ANTIGEN ON GENOMIC DNA



PCR

GENE ENCODING 47K ANTIGEN WITH C TERMINAL EXTRA SEQUENCE
(N TERMINAL SIGNAL SEQUENCE IS DELETED)

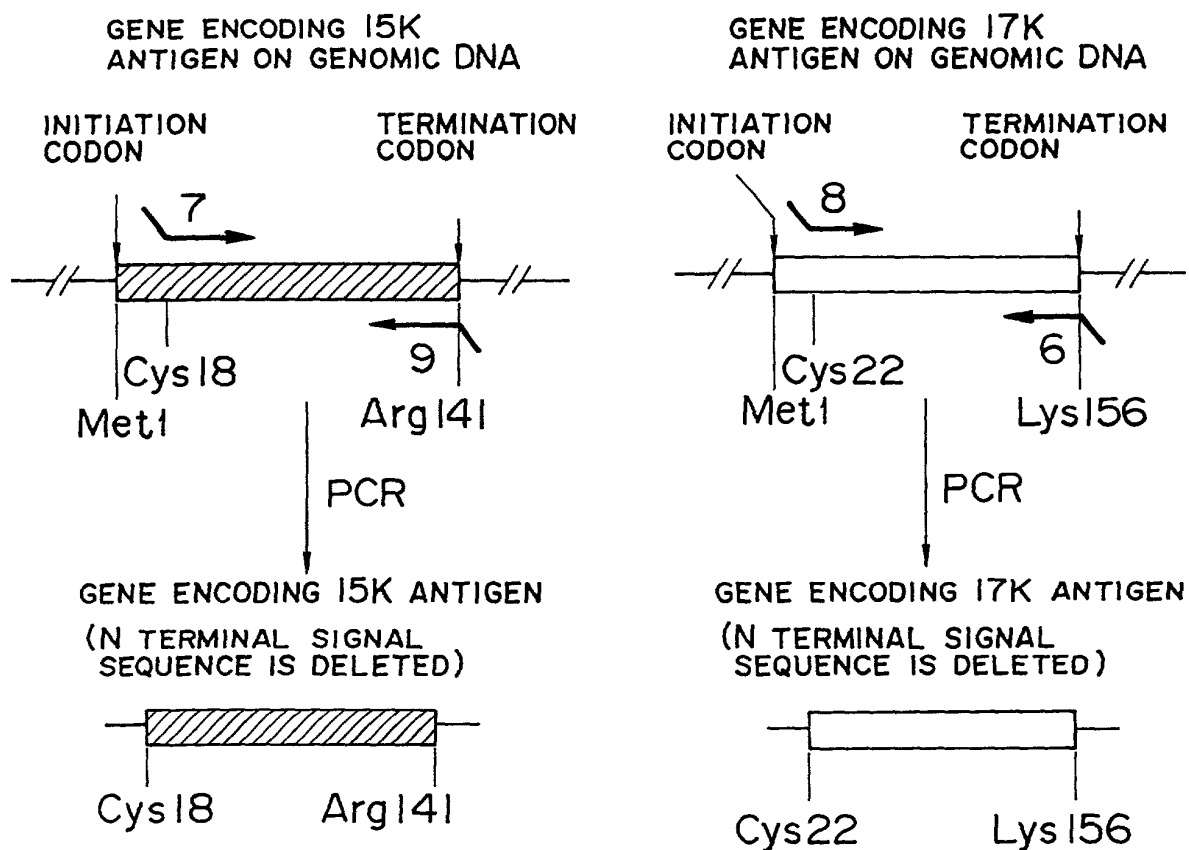


← : PRIMER

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FIG. 3

PREPARATION OF GENE ENCODING 15K ANTIGEN AND 17K ANTIGEN

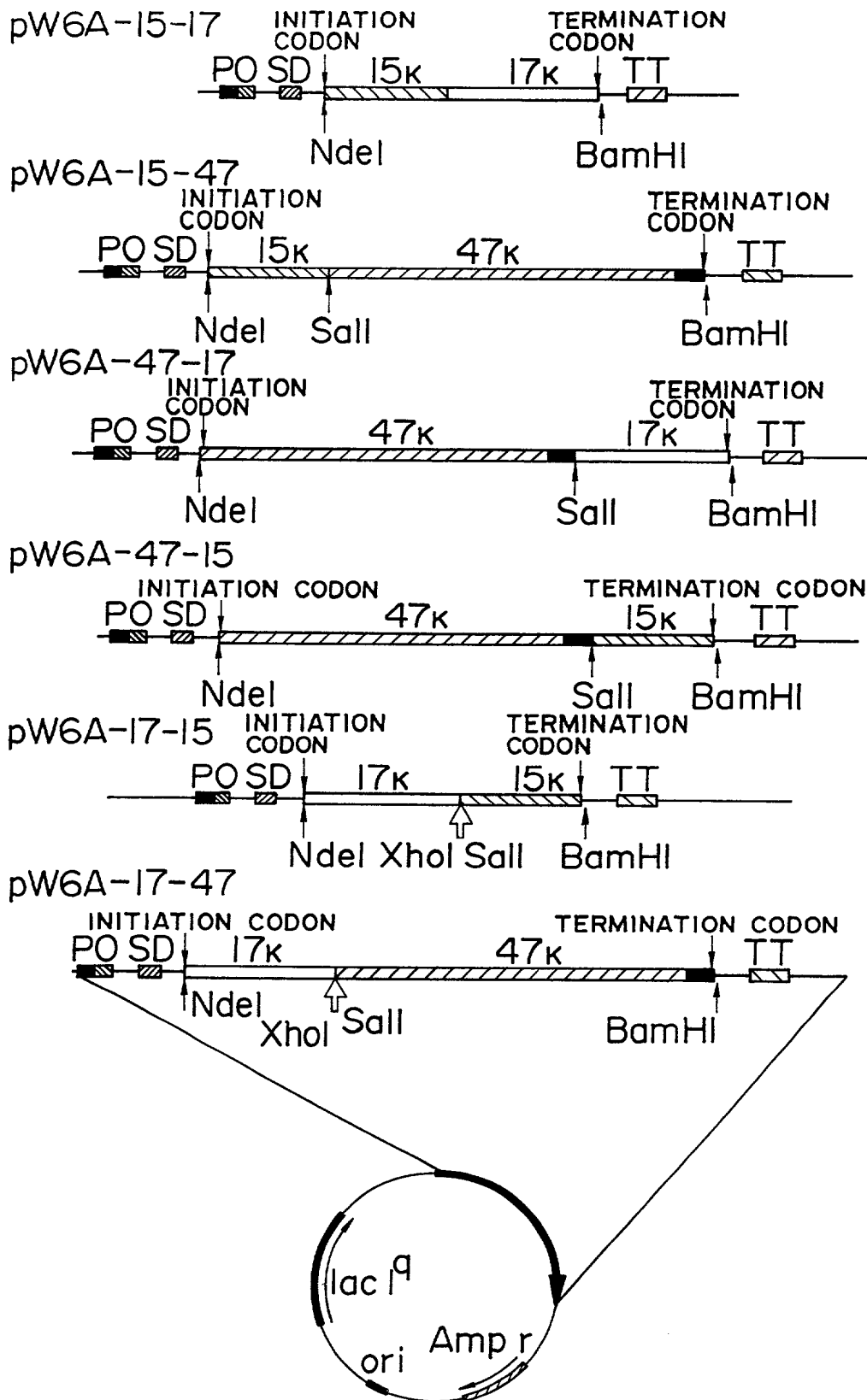


← : PRIMER

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FIG. 4

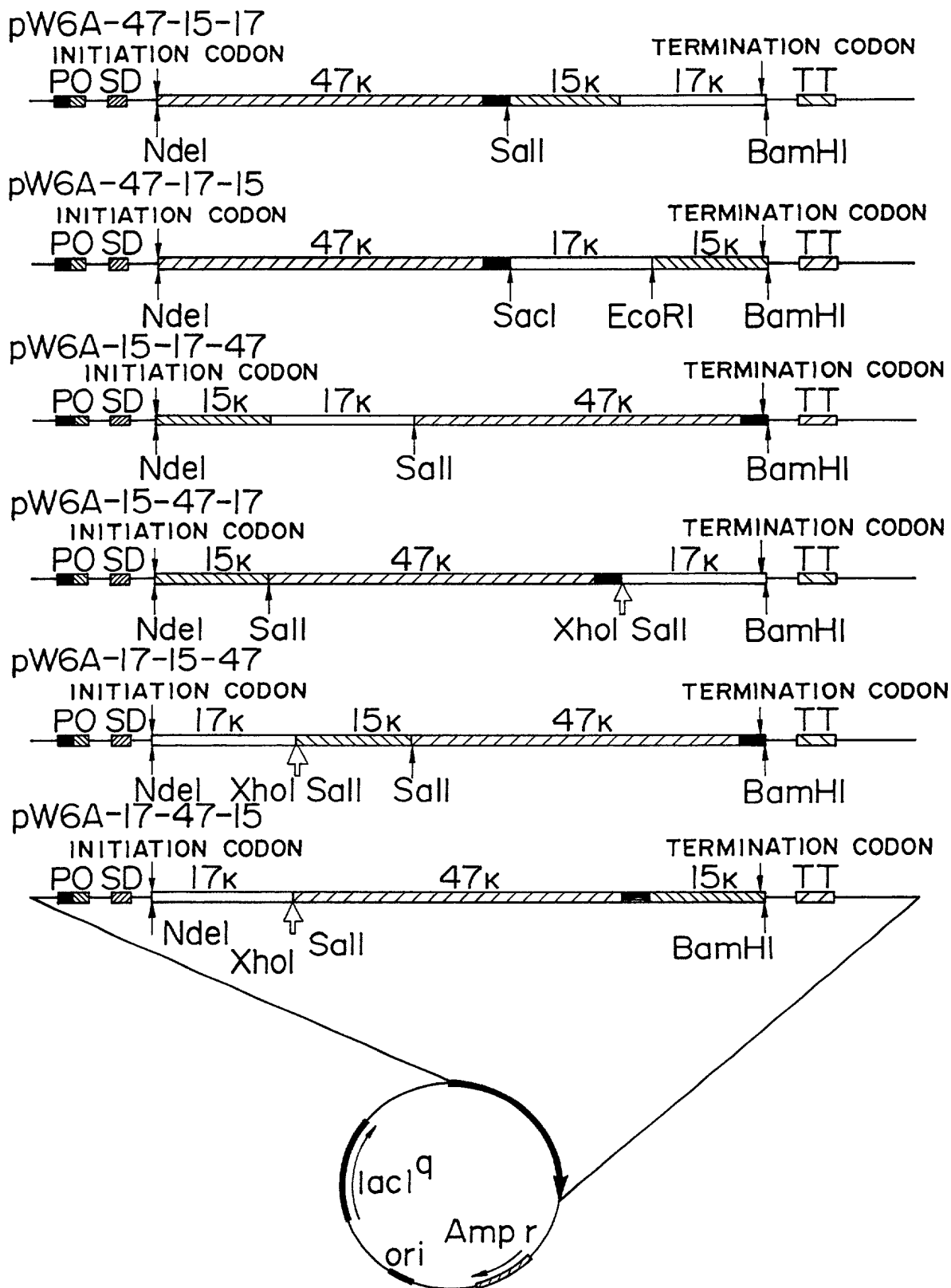
DETAILED DIAGRAM OF EXPRESSION VECTOR FOR TWO-ANTIGEN FUSED ANTIGEN



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FIG. 5

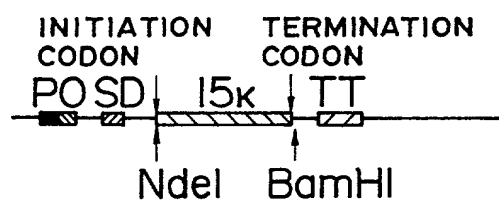
DETAILED DIAGRAM OF EXPRESSION VECTOR FOR
THREE-ANTIGEN FUSED ANTIGEN



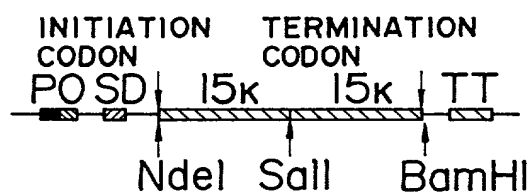
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FIG. 6

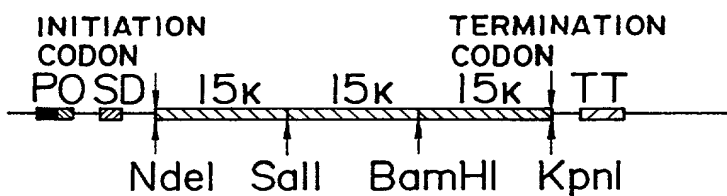
pW6A-15



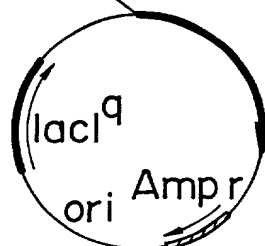
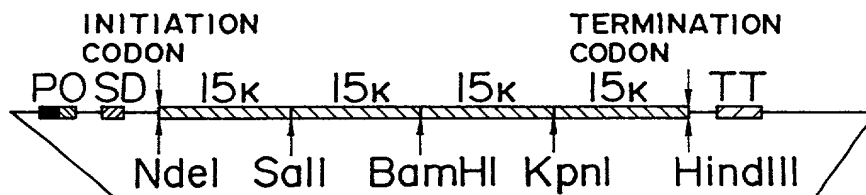
pW6A-15-15



pW6A-15-15-15

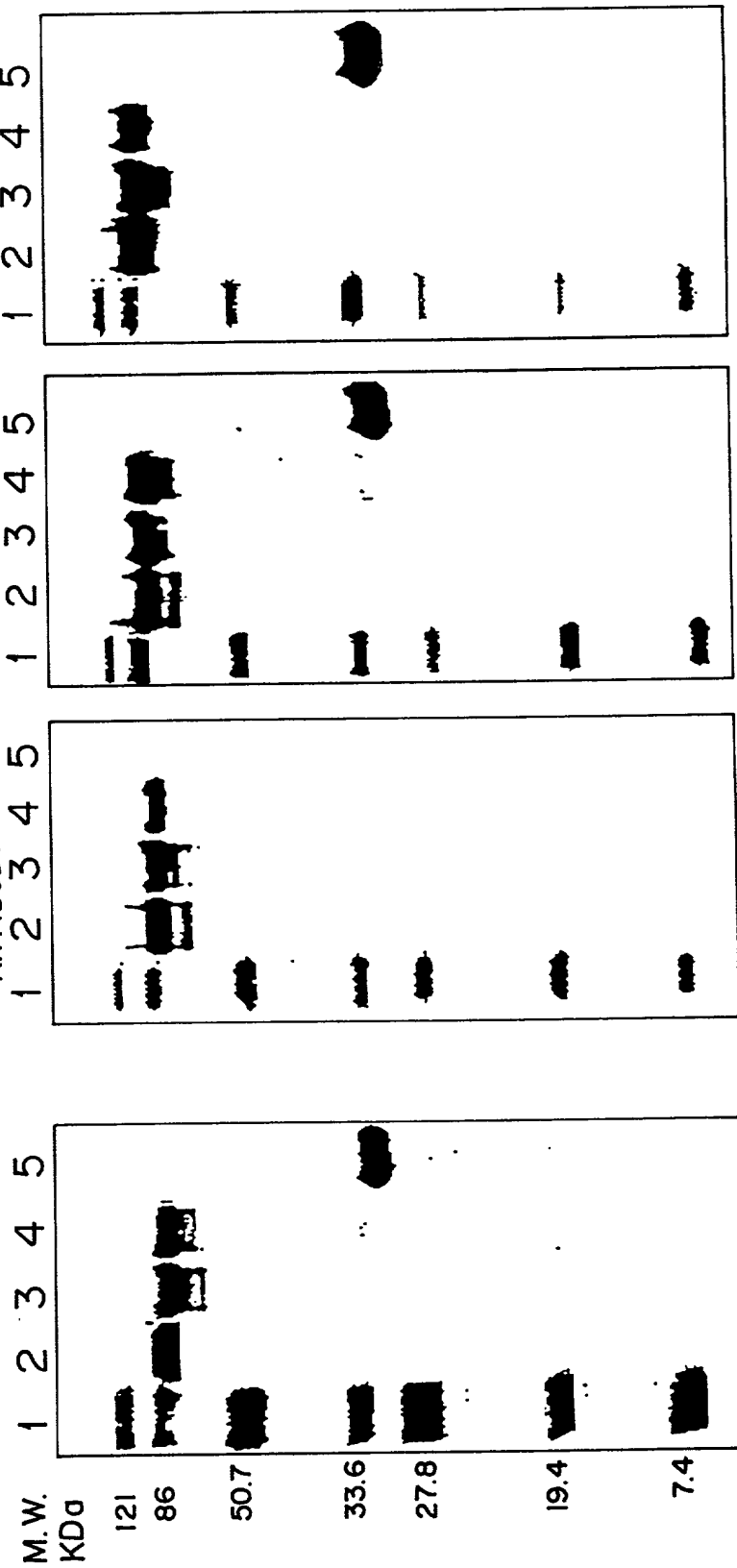


pW6A-15-15-15-15



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FIG. 7 COOMASSIE STAIN

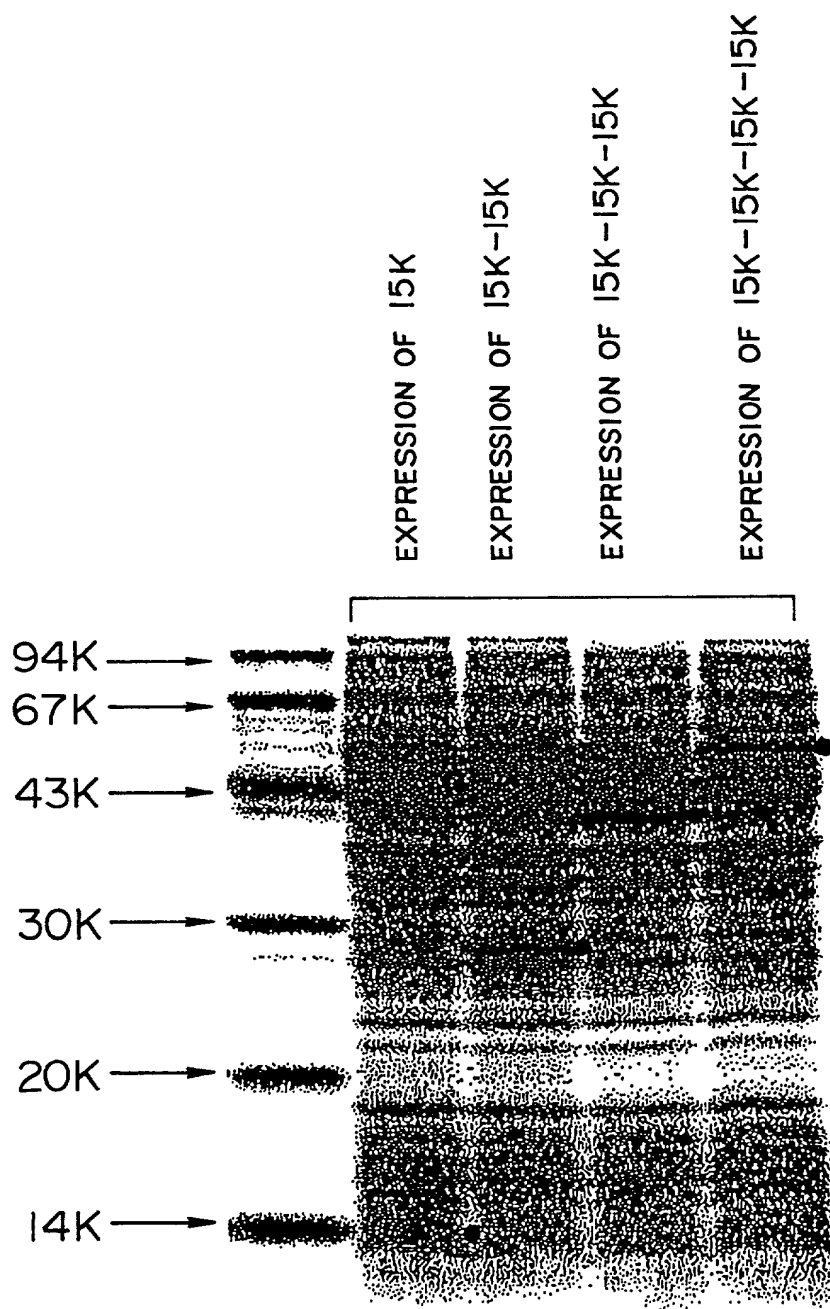


LANE 1: MOLECULAR WEIGHT MARKER

- 2: 47-17-15
- 3: 47-15-17
- 4: 15-17-47
- 5: 15-17

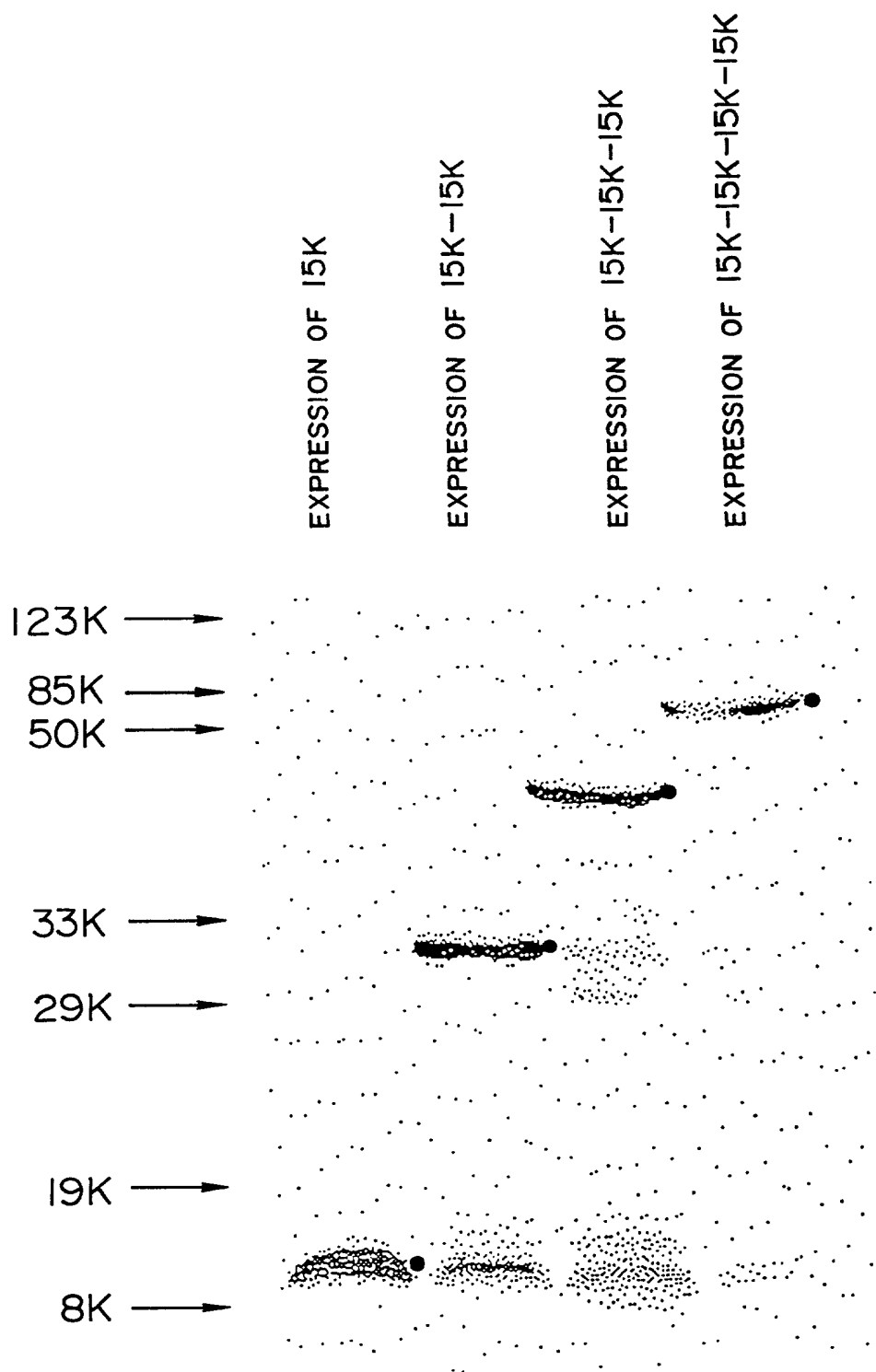
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FIG. 8

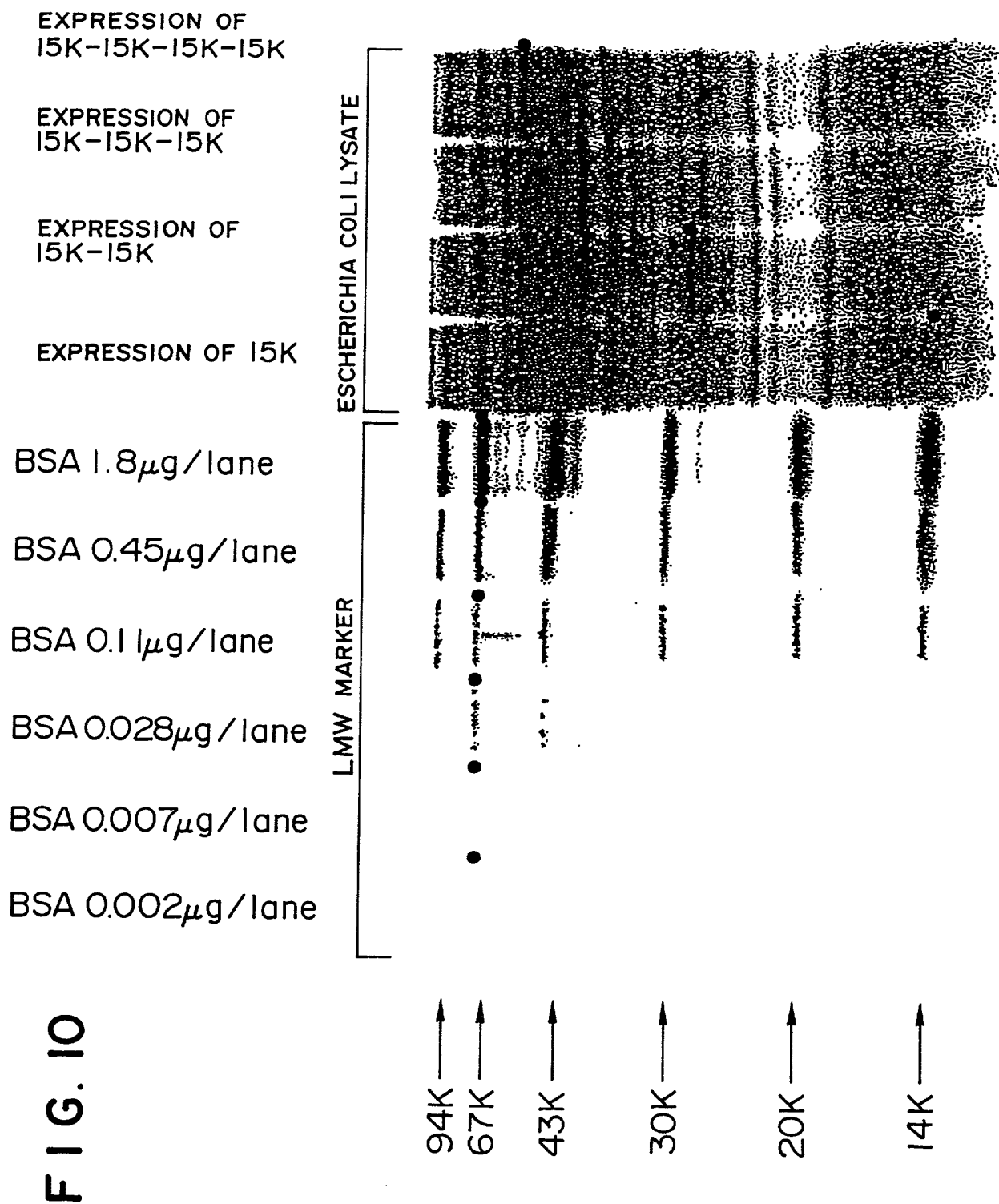


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FIG. 9



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FIG. II

